

SYSTEM AND METHOD FOR COMMUNICATING
USING MULTIPLE MEMORY BANKS

ABSTRACT OF THE DISCLOSURE

5 A method for communicating data is provided that
includes communicating a first set of data from a first
channel to a first serial-to-parallel converter and
communicating a second set of data from a second channel
10 to a second serial-to-parallel converter, the data sets
are then converted to a parallel format. The converters
are monitored to determine when one or more words of the
respective data sets have accumulated in each of the
converters. One or more of the words that have
15 accumulated in each of the converters are then written to
a selected one of first and second memory banks. A
single scheduler monitors the memory banks to determine
when the words that were written to each of the memory
banks have formed one or more cells such that they may be
20 read out of a selected one of the memory banks to be
communicated to an output communications link.